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<b>DECLARATION FOR UTILITY PATENT APPLICATION</b> (37 C.F.R. 1.63)		Attorney Docket No.	169.12-0512
		First Named Inventor	John Stuart Wright et al.
<b>COMPLETE IF KNOWN</b>			
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing	<input type="checkbox"/> Declaration Submitted after Initial Filing (Surcharge (37 C.F.R. 1.16(e)) Required)	Application Number	
		Filing Date	Herewith
		Group Art Unit	
		Examiner Name	

As a below named inventor, I hereby declare that my residence, post office address, and citizenship are as stated below.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### TAPERED PIEZOELECTRIC IN-PLANE BIMORPH AND METHOD OF FABRICATING

the specification of which:

☒ is attached hereto OR

☐ was filed on as United States Application Number or PCT International Application Number and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Certified Copy Attached? Yes No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)
60/260,755	January 10, 2001

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

DIRECT ALL CORRESPONDENCE TO:

Customer Number	00164
Attention	David R. Fairbairn
Telephone	(612) 337-9357
Fax	(612) 339-6580

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and if like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon

First Inventor:	
Given Name (First and middle (if any))	Family Name or Surname
John Stuart	Wright
Inventor's signature	Date:
Residence	Edina, Minnesota
	Citizenship USA
Mailing Address	4001 Mavelle Drive
City, State, Country	Edina, Minnesota 55435 U.S.A.

Second Inventor:	
Given Name (First and middle (if any))	Family Name or Surname
James Morgan	Murphy
Inventor's signature	Date
<i>James Morgan Murphy</i>	9 April 2001
Residence	Boulder, Colorado
	Citizenship USA
Mailing Address	3322 Hickok Place
City, State, Country	Boulder, Colorado 80301 U.S.A.

**POWER OF ATTORNEY**

Attorney Docket No.

169.12-0512

First Named Inventor : John Stuart Wright

Title : TAPERED PIEZOELECTRIC IN-PLANE BIMORPH AND METHOD OF FABRICATING

In the patent application:

☐ identified above (and submitted to the Patent and Trademark Office herewith).☒ filed on January 9, 2002 as Application No. 10/042,926.

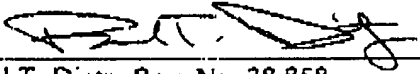
I appoint the attorneys and agents associated with Customer Number 00164 to prosecute the patent application identified above and to transact all business in the Patent and Trademark Office connected therewith, including full power of association, substitution and revocation.

I ratify all prior actions taken by Kinney & Lange, P.A. or the attorneys and agents mentioned above in connection with the prosecution of the above-mentioned patent application.

I authorize Kinney & Lange, P.A. to mark the appropriate space above and to insert the filing date and application number of the application, as appropriate.

I aver that I am empowered by Seagate Technology LLC to act on behalf of the Assignee, Seagate Technology LLC, in connection with this document and the above application.

Please address all correspondence and telephone calls to Customer Number 00164, attention David R. Fairbairn, Telephone (612) 339-1863, Fax (612) 339-6580.

SEAGATE TECHNOLOGY LLCSignature: 

Paul T. Dietz, Reg. No. 38,858

Title: Patent Attorney

Dated: April 10, 2002



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : John Stuart Wright  
Appln. No. : 10/042,926  
Filed : January 9, 2002  
Title : TAPERED PIEZOELECTRIC IN-PLANE  
BIMORPH AND METHOD OF  
FABRICATING  
Docket No. : 169.12-0512

Group Art Unit:

Examiner:

#5  
Submission  
C. H. H.  
5-2502

## SUBMISSION UNDER 37 C.F.R. 3.73(b)

Assistant Commissioner for Patents  
Washington, D.C. 20231


Sir:

Seagate Technology LLC, a Delaware corporation, is an owner of the patent application identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above, a copy of which is attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of Seagate Technology LLC.

Signature:

  
Paul T. Dietz

Date:

April 10, 2002

Title:

Patent Attorney

**ASSIGNMENT**

Attorney Docket No. 159.12-0512

Seagate Docket No. 511006100

WHEREAS, we, John Stuart Wright of Edina, Minnesota, U.S.A., and James Morgan Murphy of Boulder, Colorado, U.S.A., are the inventor(s) of an invention entitled

**TAPERED PIEZOELECTRIC IN-PLANE BIMORPH AND METHOD OF FABRICATING**

that is the subject matter of: (Check all that apply)

- ☒ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. 60/260,755, filed on January 10, 2001;
- ☒ an application for Letters Patent which has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. \_\_\_\_\_ filed on \_\_\_\_\_, and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. \_\_\_\_\_, filed on \_\_\_\_\_; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding

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\_\_\_\_\_  
John Stuart Wright

Subscribed and sworn to before me in the State of Minnesota, County of Hennepin, a Notary Public, this  
\_\_\_\_ day of \_\_\_\_\_, 2002.

\_\_\_\_\_  
Notary Public

(SEAL)



*James Morgan Murphy*  
James Morgan Murphy

Subscribed and sworn to before me in the State of Minnesota, County of Hennepin, a Notary Public, this  
9 day of Abril, 2002

\_\_\_\_\_  
Notary Public, State of Minnesota  
James Morgan Murphy  
NOTARY PUBLIC - MINNESOTA

(SEAL)

La Notario que suscribe,  
Autoriza la firma que antecede y que corresponde a don JAMES MORGAN  
MURPHY, Pasaporte No.27734136 de Estados Unidos de Norteamerica  
sin responsabilizarse del contenido del documento .=  
SANTIAGO, 9 de Abril del 2002 . =

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## ASSIGNMENT

Attorney Docket No. : I69.12-0512

Seagate Docket No. : STL 10061.00

WHEREAS, we, John Stuart Wright of Edina, Minnesota, U.S.A., and James Morgan Murphy of Boulder, Colorado, U.S.A., are the inventor(s) of an invention entitled

### TAPERED PIEZOELECTRIC IN-PLANE BIMORPH AND METHOD OF FABRICATING

that is the subject matter of: (Check all that apply)

- ☒ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. 60/260,755 filed on January 10, 2001;
- ☒ an application for Letters Patent which has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. \_\_\_\_\_ filed on \_\_\_\_\_; and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. , filed on ; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

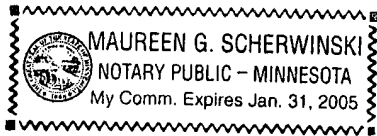
NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

John Stuart Wright  
John Stuart Wright

Subscribed and sworn to before me in the State of Minnesota, County of Hennepin, a Notary Public, this  
7th day of January, 2002.



(SEAL)

Maureen Scherwinski  
Notary Public

\_\_\_\_\_  
James Morgan Murphy

Subscribed and sworn to before me in the State of Minnesota, County of Hennepin, a Notary Public, this  
\_\_\_\_\_ day of \_\_\_\_\_, 2002.

\_\_\_\_\_  
Notary Public

(SEAL)